

HIGH ENERGY CONTAINMENT DEVICE  
AND TURBINE WITH SAME

ABSTRACT OF THE DISCLOSURE

A containment device for use in retaining debris material traveling radially outward in a rotary device is provided as is a turbine having a containment device. The containment device includes an outer ring that extends generally circumferentially and defines an inner surface directed radially inward. A plurality of energy absorption elements are disposed on the inner surface of the outer ring. Each absorption element extends both radially inward and circumferentially so that each absorption element is configured to be plastically deformed radially outward by debris material impacting the absorption element. Each absorption element can include a base and a cap, the base extending in a generally radial direction and the cap being connected to the radially inward end of the respective base and defining an angle therewith.

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